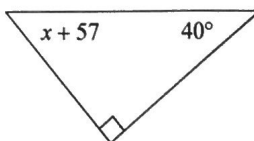
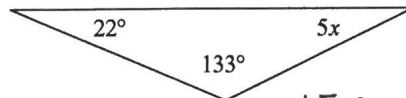


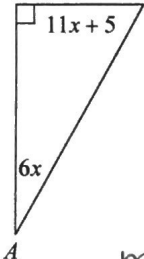
Triangle Theorems HW

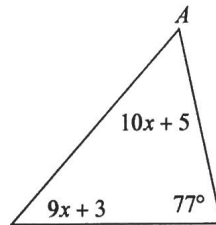
Solve for x.

1)  $187 + x = 180$
 $x = -7$

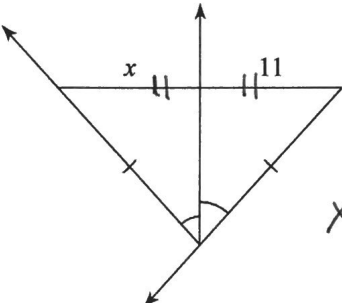
2)  $155 + 5x = 180$
 $x = 5$

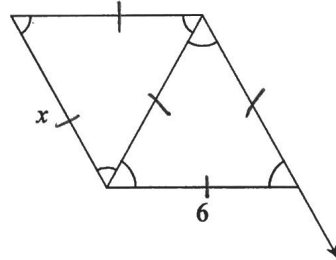
Find the measure of angle A.

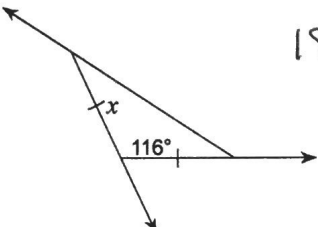
3)  $95 + 17x = 180$
 $17x = 85$
 $x = 5$
 $m\angle A = 6(5) = 30$

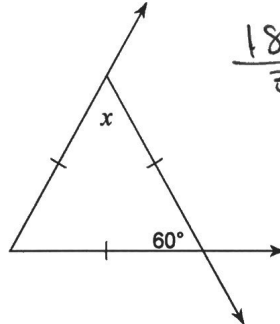
4)  $19x + 85 = 180$
 $x = 5$

Find the value of x.

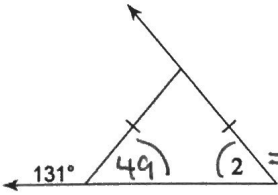
5)  $x = 11$

6)  $x = 6$

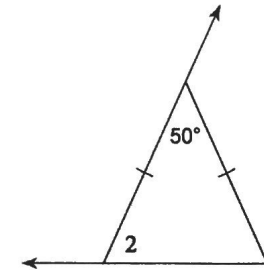
7)  $180 - 116 = \frac{64}{2}$
 $x = 32$

8)  $\frac{180}{3} = 60$
 $x = 60^\circ$

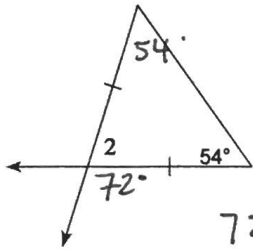
9) $m\angle 2 = -11 + 4x$

 $180 - 131 = 49$
 $49 = -11 + 4x$
 $60 = 4x$
 $x = 15$

10) $m\angle 2 = 80 + x$

 $180 - 50 = \frac{130}{2} = 65$
 $65 = 80 + x$
 $-15 = x$

11) $m\angle 2 = 7x - 19$

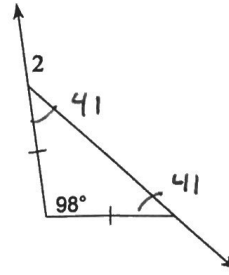


$72 = 7x - 19$

$91 = 7x$

$13 = x$

12) $m\angle 2 = x + 149$

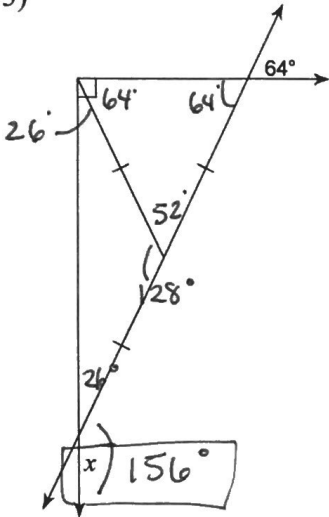


$180 - 41 = 139$

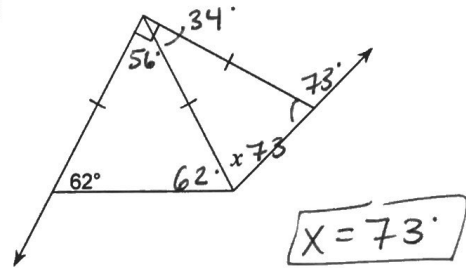
$139 = x + 149$

$-10 = x$

13)

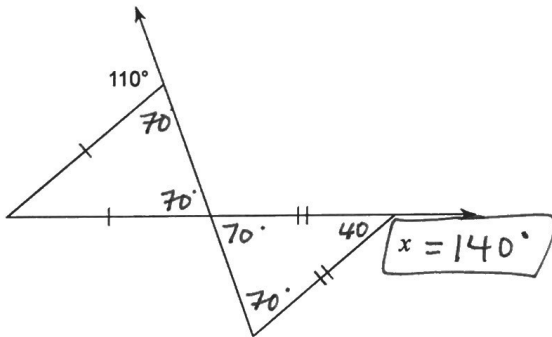


14)

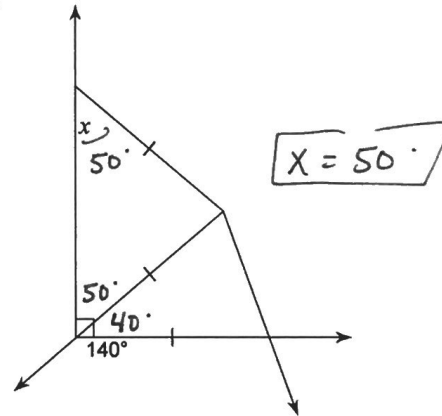


$x = 73$

15)



16)



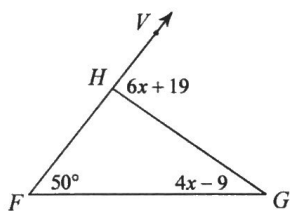
$x = 50$

Solve for x.

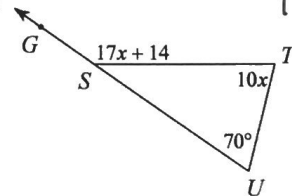
$6x + 19 = 50 + 4x - 9$

$x = 11$

17)



18)

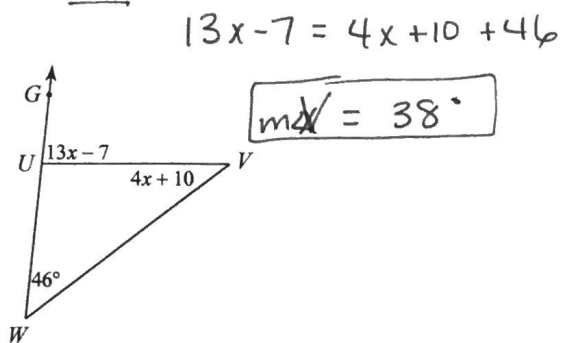


$17x + 14 = 70 + 10x$

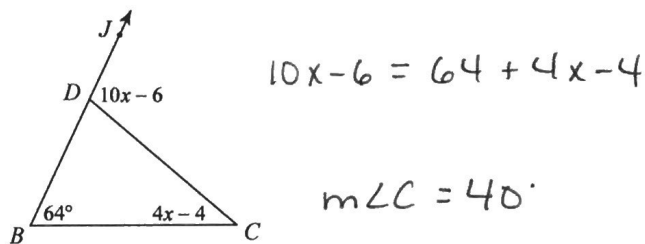
$x = 8$

Find the measure of the angle indicated.

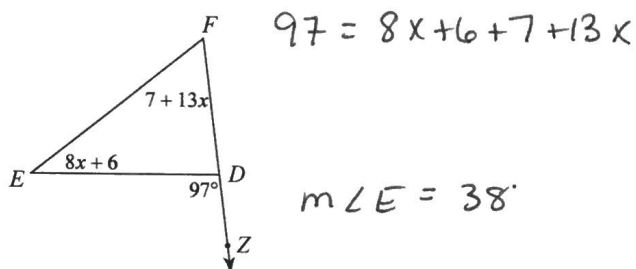
19) Find $m\angle V$.



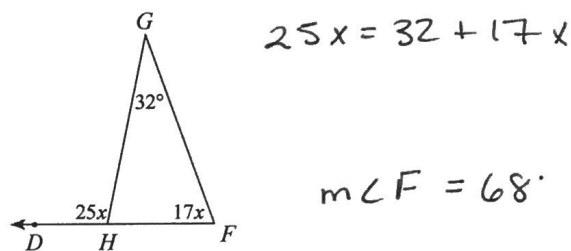
20) Find $m\angle C$.



21) Find $m\angle E$.



22) Find $m\angle F$.



State if the three numbers can be the measures of the sides of a triangle.

23) 13, 7, 6

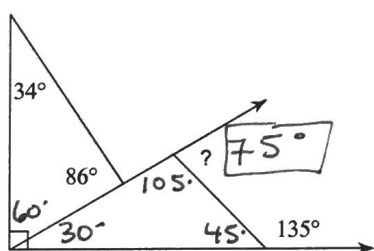
24) 12, 10, 9

25) 19, 11, 11

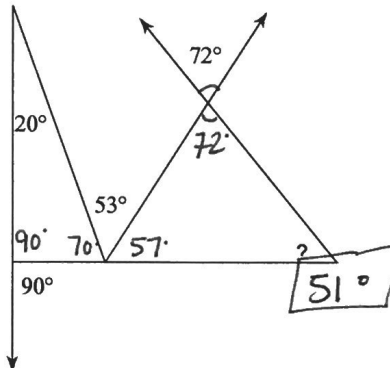
26) 1, 11, 10

Find the measure of each angle indicated.

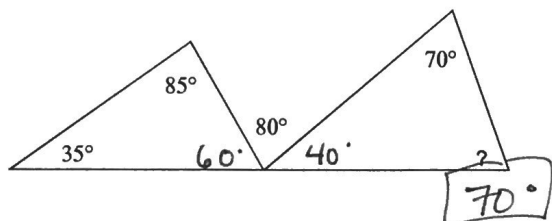
27)



28)



29)



30)

